BRUHAT BENGALURU MAHANAGARA PALIKE, YELAHANKA DIVISION

Bruhat Bengaluru Mahanagara Palike

Name of work:Asphalting to roads at Kaveri layout and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division

QUALITY CONTROL REPORTS

"SECOND & FINAL BILL "

Name of work:"Asphalting to roads at Kaveri layout and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division"						
Quality Control Abstract						
Job code:003-20-000075						
Bill Number: Second anf FinalBill						
Name of contractor: M/S KRIDL, Bangalore						
Sl No.	Description of Materials	Test	No of Units Tested	No of samples conducted	Test result	Remarks
1	GSB	Tests Conforms to IS 2386(Part I to IV)-1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.	Per Batch	Per Batch	Satisfactory	-
2	Wet Mix Mecadam	Tests Conforms to IS 2386(Part I to IV)-1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013. As per Morth	Per Batch	Per Batch	Satisfactory	-
3	Bitumen Ssamples for BM and BC	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications	Per Batch	1	Satisfactory	-

SHRIYA CONSTRUCTION AND CONSULTANCY

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬ.ಬ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೧೦೬

MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

Date: 09/12/2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.42 %**	Not more than 2.0 %
2.	Liquid Limit, %	**18.30**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.45**	----------
5.	Aggregate Impact Value, %	**28.75**	Not more than 40.00 %

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MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

Date: 09/12/2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.41 %**	Not more than 2.0 %
2.	Liquid Limit, %	**18.64**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.74**	----------
5.	Aggregate Impact Value, %	**28.80**	Not more than 40.00 %

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

Date: 09/12/2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.40 %**	Not more than 2.0 %
2.	Liquid Limit, %	**18.50**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.76**	----------
5.	Aggregate Impact Value, %	**28.07**	Not more than 40.00 %

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

Date: 09/12/2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.42 %**	Not more than 2.0 %
2.	Liquid Limit, %	**18.56**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.75**	----------
5.	Aggregate Impact Value, %	**28.00**	Not more than 40.00 %

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/KAVE/ GSB

Date: 09/12/2021

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.

Name of work:"Asphalting to roads at Kaveri layout and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division"Ref: Material Testing/PMC/20-21

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: M/S KRIDL, Bangalore

TEST RESULTS

1. **Gradation Test:**

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	**100.00**	100
53.00	**96.45**	80-100
26.50	**82.60**	55-90
9.50	**56.15**	35-65
4.75	**43.05**	25-50
2.36	**17.25**	10-20
0.85	**8.50**	2-10
0.425	**3.05**	0-5

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

Date: 09/12/2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.41 %**	Not more than 2.0 %
2.	Liquid Limit, %	**18.55**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.74**	----------
5.	Aggregate Impact Value, %	**28.05**	Not more than 40.00 %

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MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/KAVE/ GSB

Date: 09/12/2021

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.

Name of work:"Asphalting to roads at Kaveri layout and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division"Ref: Material Testing/PMC/20-21

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: M/S KRIDL, Bangalore

TEST RESULTS

1. **Gradation Test:**

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	**100.00**	100
53.00	**98.45**	80-100
26.50	**81.30**	55-90
9.50	**54.25**	35-65
4.75	**42.65**	25-50
2.36	**17.35**	10-20
0.85	**8.70**	2-10
0.425	**3.90**	0-5

SHRIYA CONSTRUCTION AND CONSULTANCY

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MOBILE: 9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/KAVE/ GSB

Date: 15/12/2021

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

Name of work:"Asphalting to roads at Kaveri layout and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division"Ref: Material Testing/PMC/20-21

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: M/S KRIDL, Bangalore

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	94.36	95-100
26.50	---	-
22.40	74.14	60-80
11.20	52.15	40-60
4.75	36.40	25-40
2.36	26.71	15-30
0.600	18.04	8-22
0.075	3.43	0-5

SHRIYA CONSTRUCTION AND CONSULTANCY

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MOBILE:9945744759

HRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

TABLE 1.2

Sl. No.	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)–1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
	Aggregate Impact Value	**27.13%**	Not more than 30.00 %
	Combined Flakiness and Elongation index, %	**28.98 %**	Not more than 35.0 %
	Water absorption, %	**0.43 %**	Not more than 2.0 %
	Plasticity Index, %	**NP**	Not more than 6.0 %

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/KAVE/ GSB

Date: 15/12/2021

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

Name of work:"Asphalting to roads at Kaveri layout and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division"Ref: Material Testing/PMC/20-21

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: M/S KRIDL, Bangalore

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	95.10	95-100
26.50	---	-
22.40	72.35	60-80
11.20	54.80	40-60
4.75	31.55	25-40
2.36	25.30	15-30
0.600	18.90	8-22
0.075	3.15	0-5

SHRIYA CONSTRUCTION AND CONSULTANCY

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)-1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	27.55%	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.38%	Not more than 35.0 %
3.	Water absorption, %	0.41%	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

SHRIYA CONSTRUCTION AND CONSULTANCY

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MOBILE:9945744759

HRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

TABLE 1.2

Sl No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)-1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
	Aggregate Impact Value	27.63 %	Not more than 30.00 %
	Combined Flakiness and Elongation index, %	28.75%	Not more than 35.0 %
	Water absorption, %	0.42 %	Not more than 2.0 %
	Plasticity Index, %	NP	Not more than 6.0 %

SHRIYA CONSTRUCTION AND CONSULTANCY

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/KAVE/ VG-30 Date: 14/02/2022

1. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade.

Name of work:"Asphalting to roads at Kaveri layout and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division"Ref: Material Testing/PMC/20-21

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.
Name of Agency/ contractor: M/S KRIDL, Bangalore

Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1 ;

SL No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1.	Penetration at 25^0 C	53.10^0 C	Min. 45
2.	Ductility Value at 25^0 C	108.50 cm	40
3.	Flash point	245^0 C	Minimum 220^0 C
4.	Softening point	52.10^0 C	Min. 47

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/KAVE/BIT-STB

Date: 14/02/2022

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.

Name of work:"Asphalting to roads at Kaveri layout and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division"Ref: Material Testing/PMC/20-21

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: M/S KRIDL, Bangalore

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1239	900
2	Marshall Flow at 60°C, mm.	3.20	2.0 - 4.0

SHRIYA CONSTRUCTION AND CONSULTANCY

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/KAVE/BIT-STB

Date: 14/02/2022

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Name of work:"Asphalting to roads at Kaveri layout and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division"Ref: Material Testing/PMC/20-21

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: M/S KRIDL, Bangalore

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1231	900
2	Marshall Flow at 60°C, mm.	3.27	2.0 - 4.0

SHRIYA CONSTRUCTION AND CONSULTANCY

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MOBILE: 9945744759

IRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/KAVE/BIT -EX Date: 21-02-2022

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

Name of work:"Asphalting to roads at Kaveri layout and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division"Ref: Material Testing/PMC/20-21

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: M/S KRIDL, Bangalore

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.40 %**

2. **Gradation Test**

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	100	100
13.2	97.25	90-100
9.5	82.10	70-88
4.75	65.50	53-71
2.36	52.70	42-58
1.18	40.35	34-48
0.600	34.75	26-38
0.300	23.60	18-28
0.150	18.25	12-20
0.075	7.15	4-10

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SHRIYA CONSTRUCTION & CONSULTANCY

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NYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

/EL-D/PMC/KAVE/BIT-STB

Date: 21-02-2022

ST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

: To determine the stability of bituminous mix for BC mix sample.

ne of work:"Asphalting to roads at Kaveri layout and surrounding areas in ward no Yelahanka Satellite Town sub Division"Ref: Material Testing/PMC/20-21

ort submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP galore.

ne of Agency/ contractor: M/S KRIDL, Bangalore

TEST RESULTS

ble 1: Properties of BC (Gr-2) Mix

Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
Marshall Stability (75 blows) (At 60°C), kgs.	1345	900
Marshall Flow at 60°C, mm.	3.32	2.0 - 4.0

SURIYA CONSTRUCTION AND CONSULTANCY

21-03

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MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/KAVE/BIT -EX

Date: 21-02-2022

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

Name of work:" Asphalting to roads at Kaveri layout and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division" Ref: Material Testing/PMC/20-21

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: M/S KRIDL, Bangalore

TEST RESULTS

A. Type of Construction : Bituminous Concrete

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = 5.40%

2. Gradation Test

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	100	100
13.2	94.25	90-100
9.5	82.10	70-88
4.75	68.35	53-71
2.36	52.80	42-58
1.18	45.30	34-48
0.600	31.75	26-38
0.300	23.65	18-28
0.150	18.05	12-20
0.075	6.90	4-10

SHRIYA CONSTRUCTION & CONSULTANCY

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MOBILE: 9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/KAVE/BIT-STB

Date: 21-02-2022

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

Name of work:"Asphalting to roads at Kaveri layout and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division"Ref: Material Testing/PMC/20-21

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: M/S KRIDL, Bangalore

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1352	900
2	Marshall Flow at 60°C, mm.	3.41	2.0 - 4.0

AE

SHRIYA CONSTRUCTION AND CONSULTANCY

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